



NAME- SHRIMANTA GARAIN

STUDENT CODE- BWU/BTS/17/076

PROGRAM NAME- B. TECH(CSE)

UNIVERSITY ROLL NO.- 17010307061

REGISTRATION NO.- 17013000339

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HTML And Basic TAGS

HTML, or **Hypertext Markup Language**, allows web users can create and structure sections, paragraphs, and links using elements, tags, and attributes. However, it's worth nothing that HTML is not considered a programming language as it can't create dynamic functionality.

HTML has a lot of use cases, namely:

- **Web development.** Developers use HTML code to design how a browser displays web page elements, such as text, hyperlinks, and media files.
- **Internet navigation.** Users can easily navigate and insert links between related pages and websites as HTML is heavily used to embed hyperlinks.
- **Web documentation.** HTML makes it possible to organize and format documents, similarly to Microsoft Word.

Basic HTML tags:

HTML contains lots of predefined tag. Some of them are described below:

- **HTML tag:** It is the root of the html document which is used to specify that the document is html.

Basic Syntax:

```
<html> Statements... </html>
```

- **Head tag:** Head tag is used to contain all the head element in the html file. It contains the title, style, meta, ... etc tag.

Basic Syntax:

```
<head> Statements... </head>
```

- **Body tag:** It is used to define the body of html document. It contains image, tables, lists ...etc.

Basic Syntax:

```
<body> Statements... </body>
```

- **Title tag:** It is used to define the title of html document.

Basic Syntax:

```
<title> Statements... </title>
```

- **Heading tag:** It is used to define the heading of html document.
Basic Syntax:

```
<h1> Statements... </h1>
<h2> Statements... </h2>
<h3> Statements... </h3>
<h4> Statements... </h4>
<h5> Statements... </h5>
<h6> Statements... </h6>
```
- **Paragraph tag:** It is used to define paragraph content in html document.
Basic Syntax:

```
<p> Statements... </p>
```
- **Bold tag:** It is used to specify bold content in html document.
Basic Syntax:

```
<b> Statements... </b>
```
- **Italic tag:** It is used to write the content in italic format.
Basic Syntax:

```
<i> Statements... </i>
```
- **Underline tag:** It is used to set the content underline.
Basic Syntax:

```
<u> Statements... </u>
```
- **Anchor tag:** It is used to link one page to another page.
Basic Syntax:

```
<a href="..."> Statements... </a>
```
- **List tag:** It is used to list the content.
Basic Syntax:

```
<li> Statements... </li>
```

Empty (Non-Container) Tags:

- **Line break tag:** It is used to break the line.
Basic Syntax: `
`
- **Image tag:** It is used to add image element in html document.
Basic Syntax: ``
- **Link tag:** It is used to link the content from external source.
Basic Syntax: `<link>`

- **Meta tag:** It is used to specify the page description. For example: last modifier, authors, ... etc.
Basic Syntax: <meta> Statements ... </meta>
- **Tables Tags:** Table tag is used to create a table in html document.
Basic Syntax: <table> Statements... </table>
- **Tr tag:** It is used to define row of html table.
Basic Syntax: <tr> Statements... </tr>
- **Th tag:** It defines the header cell in a table. By default, it set the content with bold and centre property.
Basic Syntax: <th> Statements ... </th>
- **Td tag:** It defines the standard cell in html document.
Basic Syntax: <td> Statements ... </td>

Input Tags:

- **Form tag:** It is used to create html form for user.
Basic Syntax: <form> Statements ... </form>
- **Submit input tag:** It is used to take the input from the user.
Basic Syntax: <input>
- **Dropdown option tag:** It is used to select an option from a drop-down list.
Basic Syntax: <option> Statements ... </option>
- **Radio button tag:** It is used to select only one option from the given options.
Basic Syntax: <input>

Assignment source code:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap"
rel="stylesheet">
  <style *{font-family: 'Roboto', sans-serif;}></style>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hometels</title>
</head>
<body>
  <h1 style="text-align: center; color: yellow; background-color:
teal;">HOMETELS</h1>
  <hr>
  <p style="text-align: center;"></p>
  <p> <mark> SECTORFresh, spirited and youthful,</mark> Lemon Tree Hotels
(LTH) is India's largest chain in the mid-priced hotels sector and third
largest overall, as of June 30, 2017, according to the Horwath Report. This
award winning Indian hotel chain opened its first hotel with 49 rooms in May
2004 and operates 87 hotels in 54 destinations with ~8,500 rooms and over
8,000</p>
  <br><br><br>
  <hr>
  <h3 style="text-align: center; color: teal; background-color: yellow;"
>Available Rooms</h3>
  <br><br><br>
  <table border="5" style="text-align: center;" cellpadding="0"
cellpadding="10" >
    <tr>
      <th>small room</th>
      <th>big room</th>
      <th>master bed</th>
      <th>premium lounge</th>
    </tr>
    <tr>
      <td>10</td>
      <td>20</td>
      <td>33</td>
      <td>40</td>
    </tr>
    <tr>
      <td>free tea</td>
      <td>free lunch</td>

```

```

        <td>free diner</td>
        <td>free wine</td>
    </tr>
</table>
<br><br><br>
<hr>
    <h3 style="text-align: center; color: blue; background-color:
yellow;">Features</h3>
    <ul type="square">
        <li>free vallet</li>
        <li>free wifi</li>
        <li>free bar</li>
        <li>room service</li>
    </ul>
<hr>
    <h3 style="text-align: center; color: blue; background-color:
yellow;">Registration Forum</h3>
    <br>
    <form>
        <label>username</label>
        <input type="text" name="username" placeholder="enter ur
name"><br><br>
        <label>password</label>
        <input type="password" name="password" placeholder="enter ue
password"><br><br>
        <label>email ID</label>
        <input type="email" name="email" placeholder="enter ur email
ID"><br><br>
        <label>Mobile No.</label>
        <input type="number" name="mobile" placeholder="enter ur mobile
no."><br><br>
        <p>select ur gender</p>
        <input type="radio" name="gender"> male
        <input type="radio" name="gender"> Female
        <br><br>
        <p>select ur age</p>
        20<input type="range" name="age"> 40
        <br><br>
        <p>click below button</p>
        <input type="button" name="btn">click here
        <br><br>
        <p>agree terms and cond</p>
        <input type="checkbox" name="check">
        <br><br>
        <select>
            <option>select ur room plan</option>
            <option value="basic">basic plan</option>
            <option value="medium">medium plan</option>

```

```


        <option value="premium">premium plan</option>
    </select><br><br>
    <input type="submit">
</form>
<hr>

</body>
</html>

```

OUTPUT:

HOMETELS



SECTOR Fresh, spirited and youthful. Lemon Tree Hotels (LTH) is India's largest chain in the mid-priced hotels sector and third largest overall, as of June 30, 2017, according to the Horwath Report. This award winning Indian hotel chain opened its first hotel with 49 rooms in May 2004 and operates 87 hotels in 54 destinations with ~8,500 rooms and over 8,000

Available Rooms

small room	big room	master bed	premium lounge
10	20	33	40
free tea	free lunch	free diner	free wine

Features

- free vallet
- free wifi
- free bar
- room service

Registration Forum

username

password

email ID

Mobile No.

select ur gender

☐ male
 ☐ Female

select ur age

select ur gender

☐ male
 ☐ Female

select ur age

click below button

agree terms and cond

☐

select ur room plan

Submit

Assignment II

HTML Form Elements

The form element inserts a component designed to contain controls that users can interact with to send information back to the server. This element is commonly used to gather information from the visitors of a website, like preferences, comments, opinions and a lot more. It's also very important in the process of login some websites provide.

The HTML <form> element can contain one or more of the following form elements:

<input>

<label>

<select>

<textarea>

<button>

<fieldset>

<legend>

<datalist>

<output>

<option>

<optgroup>

- **The <input> Element**

One of the most used form element is the <input> element.

- **The <label> Element**

The <label> element defines a label for several form elements.

The <label> element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focus on the input element.

The <label> element also help users who have difficulty clicking on very small regions (such as radio buttons or checkboxes) - because when the user clicks the text within the <label> element, it toggles the radio button/checkbox.

The for attribute of the <label> tag should be equal to the id attribute of the <input> element to bind them together.

- **The <select> Element**

The <select> element defines a drop-down list

- **The <textarea> Element**

The <textarea> element defines a multi-line input field (a text area):

- **The <button> Element**

The <button> element defines a clickable button

- **The <fieldset> Elements**

The <fieldset> element is used to group related data in a form.

- **The <legend> Elements**

The <legend> element defines a caption for the <fieldset> element.

- **The <datalist> Element**

The <datalist> element specifies a list of pre-defined options for an <input> element. Users will see a drop-down list of the pre-defined options as they input data. The list attribute of the <input> element, must refer to the id attribute of the <datalist> element.

- **The <output> Element**

The <output> element represents the result of a calculation (like one performed by a script).

Assignment source code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Registration form</title>
  <style type="text/css">
    h1{
      font-style: italic;
      color: rgba(50,150,30,0.85);
      font-size: 50px;
      font-family: raleway;
      background-color: white;
    }
    body{
      font-style: all;
      font-size: 30px;
      color:white;
      background-repeat: no-repeat;
      background-size: cover;
    }
    form{
      background-color: gray;
    }
  </style>
</head>
<body>
  <center>
    <h1>Register</h1>
    <form>
      <div>
        <label for="First Name">First Name:</label>
        <input id="First Name" type="text" required placeholder="Enter first
name here" name="First Name">
      </div>
      <div>
        <label for="Last Name">Last Name:</label>
        <input id="Last Name" type="text" required placeholder="Enter last
name here" name="Last Name">
      </div>
      <div>
        <label for="Male">Male</label>
        <input id="Male" type="radio" name="Sex">
        <label for="Female">Female</label>
        <input id="Female" type="radio" name="Sex">
        <label for="Others">Others</label>
        <input id="Others" type="radio" name="Sex">
      </div>
    </form>
  </center>
</body>
</html>
```

```

</div>
<div>
  <label for="Email">Email:</label>
  <input id="Email" type="email" required placeholder="your email">
</div>
<div>
  <label for="Password">Password:</label>
  <input id="Password" type="Password" required >
</div>
<div>
  <label>
    Birthday:
    <select name="Month">
      <option>Jan</option>
      <option>Feb</option>
      <option>Mar</option>
      <option>Apr</option>
      <option>May</option>
      <option>Jun</option>
      <option>July</option>
      <option>Aug</option>
      <option>Sep</option>
      <option>Oct</option>
      <option>Nov</option>
      <option>Dec</option>
    </select>
    <select name="Date">
      <option>1</option>
      <option>2</option>
      <option>3</option>
      <option>4</option>
      <option>5</option>
      <option>6</option>
      <option>7</option>
      <option>8</option>
      <option>9</option>
      <option>10</option>
      <option>11</option>
      <option>12</option>
      <option>13</option>
      <option>14</option>
      <option>15</option>
      <option>16</option>
      <option>17</option>
      <option>18</option>
      <option>19</option>
      <option>20</option>
      <option>21</option>
    </select>
  </label>

```

```

        <option>22</option>
        <option>23</option>
        <option>24</option>
        <option>25</option>
        <option>26</option>
        <option>27</option>
        <option>28</option>
        <option>29</option>
        <option>30</option>
        <option>31</option>
    </select>
    <select name="Year">
        <option>2011</option>
        <option>2012</option>
        <option>2013</option>
        <option>2014</option>
    </select>
</label>
</div>

<div>
    <label for="I agree to all the terms and conditions">I agree to all
the terms and conditions</label>
    <input id="I agree to all the terms and conditions" type="checkbox"
required >
</div>
<button>submit</button>

</form>
</center>
</body>
</html>

```

Output:

Register

First Name:
 Last Name:
 Male • Female • Others •
 Email:
 Password:
 Birthday: Jan 1 2011
 I agree to all the terms and conditions ☐